



Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MAG 1 BRAKE PARTS CLEANER 408
Product Code: MG750408
Emergency Phone: CHEMTREC: (800) 424-9300
International: +011(703) 527-3887
Poison Control Center: (800) 222-1222
Company: Warren Distribution, Inc.
727 S. 13th St.
Omaha, NE 68102
Information Phone: (800) 825-1235 (402) 341-9397

II. HAZARDS IDENTIFICATION

Routes of Entry: Inhalation, Ingestion, Skin contact, Eye contact
Chemical Interactions: No chemical interaction known to affect toxicity.
Conditions Aggravated by Exposure: Liver disease, Kidney disease

Acute Health Effects:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption: No absorption hazard in normal industrial use.
Eye Contact: Can cause minor irritation, tearing and reddening.
Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Chronic Health Effects:

Carcinogenicity: Contains a substance that is a probable cancer hazard based on human studies.
Reproductive Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

HMIS Ratings:

Health: 2
Fire: 0
Reactivity: 0
PPE: B

NFPA Ratings:

Health: 2
Fire: 0
Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	OSHA Exposure Limits
Ethylene, tetrachloro-	60 - 90	127-18-4	100 ppm TWA; C 200 ppm C 200 ppm
Trichloroethylene (TCE)	5 - 10	79-01-6	100 ppm TWA 200 ppm Ceiling



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Stoddard solvent	5 - 10	8052-41-3	500 ppm TWA; 2900 mg/m3 TWA
Carbon dioxide	1 - 5	124-38-9	5000 ppm TWA; 9000 mg/m3 TWA

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

IV. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
Eyes:	Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this MSDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal. Contains a toxic substance. Seek medical help immediately and contact a poison information service. Drink two glasses of water or milk to dilute.
Notes to Doctor:	No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability	Combustible
Summary:	
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential for hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide
Autoignition Temperature:	No data.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
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Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center. Do not flush to sewer.

VII. HANDLING AND STORAGE

Handling Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer. Use spark-proof tools and explosion-proof equipment

Storage Conditions: No special requirements.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear safety glasses when handling this product if there is a likelihood of contact with eyes.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: No information available.

Control Parameters:

Chemical Name	ACGIH TLV -TWA	ACGIH STEL	IDLH	OSHA STEL
Ethylene, tetrachloro-	25 ppm TWA; 170 mg/m3 TWA	100 ppm STEL; 685 mg/m3 STEL	150 ppm IDLH	100 PPM STEL; 685 MG/M3 STEL
Trichloroethylene (TCE)	10 ppm TWA	25 ppm STEL	1000 ppm IDLH	No STEL
Stoddard solvent	100 ppm TWA	No STL	20000 mg/m3 IDLH	No STEL
Carbon dioxide	5000 ppm TWA	30000 ppm STEL	40000 ppm IDLH	30000 ppm STEL; 54000 mg/m3 STEL



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IX. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	No data
Solubility in Water:	Not determined
Evaporation Rate:	No data.
Vapor Pressure:	No data.
Boiling Point (°C):	No data.
Specific Gravity:	1.23
Density:	10.26
Flash Point Method:	No data.
Upper Flammability Limit, % in air:	Unknown
Lower Flammability Limit, % in air:	Unknown

X. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid:	Strong oxidizing agents
Hazardous Decomp. Products:	No data available
Hazardous Polymerization:	Will not occur.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.
Inhalation:	Toxic! Can cause systemic damage (see "Target Organs"). Respiratory failure is possible at high doses.
Absorption:	No absorption hazard in normal industrial use.
Eyes (Draize score):	This material is likely to be slightly irritating to eyes based on animal data.
Skin (Draize score):	This material is likely to be moderately irritating to skin based on animal data.
Sensitization:	No data.

Component Toxicology Data (NIOSH):

Chemical Name	CAS #	LD₅₀/LC₅₀
Ethylene, tetrachloro-	127-18-4	Inhalation LC50 Rat 4000 ppm 4 h (Source: IUCLID); Oral LD50 Rat 2629 mg/kg (Source: IUCLID); Dermal LD50 Mouse 2800 mg/kg (Source: IUCLID)
Ethylene, trichloro-	79-01-6	Inhalation LC50 Rat 8000 ppm 4 h (Source: IUCLID); Inhalation LC50 Rat 26300 ppm 1 h (Source: IUCLID)

XII. ECOLOGICAL INFORMATION

Overview:	This material is not expected to be harmful to the ecology.
Persistence:	No data.
Bioconcentration:	Bioconcentration is not expected to occur.
Degradability:	No data.

Toxicity to Aquatic Invertebrates:	CAS #	Results
Tetrachloroethylene	127-18-4	48 Hr EC50 Daphnia magna: 6.1 - 9.0 mg/L [Static]
Trichloroethylene	79-01-6	48 Hr EC50 Daphnia magna: 2.2 mg/L



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Tetrachloroethylene	127-18-4	96 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L
Trichloroethylene	79-01-6	96 Hr EC50 Desmodesmus subspicatus: 450 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 175 mg/L
Toxicity to Fish:	CAS #	Results
Tetrachloroethylene	127-18-4	96 Hr LC50 Pimephales promelas: 12.4 - 14.4 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 8.6 - 13.5 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.73 - 5.27 mg/L [flow-through]
Trichloroethylene	79-01-6	96 Hr LC50 Pimephales promelas: 31.4 - 71.8 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 39 - 54 mg/L [static]

XIII. DISPOSAL CONSIDERATIONS

Disposal Methods:	Dispose of according to Federal, State, Local, or Provincial regulations. Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal Code(s):	D039, D040, F001, F002

XIV. TRANSPORTATION INFORMATION

D.O.T.	UN1950, AEROSOLS, 2.2 (6.1), LTD QTY
IMO/IMDG	Proper Shipping Name: AEROSOLS UN Number: UN1950 Hazard Class: 2.2(6.1) EMS#: F-D,S-U Marine Pollutant: Contains Marine Pollutants
IATA/ICAO	Proper Shipping Name: AEROSOLS, NON-FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION 6.1, PACKING GROUP III UN Number: UN1950 Hazard Class: 2.2 (6.1)

XV. REGULATORY INFORMATION

TSCA Status:	All components of this material are on the US TSCA Inventory or are exempt.
State Restrictions:	None Listed.
WHMIS:	D1B, D2A, D2B B3, D2B A; Uncontrolled product according to WHMIS classification criteria (solid)

Chemical Name	Regulation	CAS #	% Range
Ethene, tetrachloro-	CERCLA RQ	127-18-4	
Ethene, trichloro-	CERCLA RQ	79-01-6	
Tetrachloroethylene	SARA 313	127-18-4	60 - 90
Trichloroethylene	SARA 313	79-01-6	5 - 10
None Listed.	SARA 302-EHS		
None Listed.	TSCA 12b export notification		



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Tetrachloroethylene	CA Prop 65 – Cancer	127-18-4	60 - 90
Trichloroethylene	CA Prop 65 – Cancer	79-01-6	5 - 10
Tetrachloroethylene	Canadian WHMIS List	127-18-4	60 - 90
Trichloroethylene	Canadian WHMIS List	79-01-6	5 - 10
Stoddard solvent	Canadian WHMIS List	8052-41-3	5 - 10
Carbon dioxide	Canadian WHMIS List	124-38-9	1 - 5
Tetrachloroethylene	Massachusetts RTK List	127-18-4	60 - 90
Trichloroethylene	Massachusetts RTK List	79-01-6	5 - 10
Stoddard solvent	Massachusetts RTK List	8052-41-3	5 - 10
Carbon dioxide	Massachusetts RTK List	124-38-9	1 - 5
Tetrachloroethylene	New Jersey RTK List	127-18-4	60 - 90
Trichloroethylene	New Jersey RTK List	79-01-6	5 - 10
Stoddard solvent	New Jersey RTK List	8052-41-3	5 - 10
Carbon dioxide	New Jersey RTK List	124-38-9	1 - 5
Ethene, tetrachloro-	Pennsylvania RTK List	127-18-4	60 - 90
Ethene, trichloro-	Pennsylvania RTK List	79-01-6	5 - 10
Stoddard solvent	Pennsylvania RTK List	8052-41-3	5 - 10
Carbon dioxide	Pennsylvania RTK List	124-38-9	1 - 5
Perchloroethylene	Minnesota Hazardous Substance List	127-18-4	60 - 90
Trichloroethylene	Minnesota Hazardous Substance List	79-01-6	5 - 10
Stoddard solvent	Minnesota Hazardous Substance List	8052-41-3	5 - 10
Carbon dioxide	Minnesota Hazardous Substance List	124-38-9	1 - 5

Consumer Product Safety Improvement Act of 2008 General Conformity Certification:

This product has been evaluated and certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

XVI. ADDITIONAL INFORMATION

Supersedes: 11/18/2013 10:25:56 AM

Revision Date: 11/18/2013 10:50:35 AM

Created by: HAZEMS

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